

OFFICE OF



UTAH

**AMBULATORY
SURGERY
DATABASE**

**1998
PUBLIC-USE DATA FILE
USERS' MANUAL**

Version I
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**UTAH HEALTH DATA COMMITTEE
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INTRODUCTION

Utah Ambulatory Surgery Data Base:

Administrative Rule R428.11 became effective in March, 1998, and mandates that all Utah licensed hospital and freestanding ambulatory surgical facilities shall report information on ambulatory surgery discharges, beginning with January 1, 1996. The data base contains the consolidated information on complete billing, medical codes, and personal characteristics describing a patient, the services received, and charges billed for each ambulatory surgical stay. Fifty Six Utah surgical facilities submitted data in 1998.

Public-Use Data Files (PDF):

The Ambulatory Surgery Public-Use Data Files are designed to provide general health care information to a wide spectrum of users with minimal controls. A request for a PDF can be approved by the Director of the Health Care Statistics without further review.

Two different public data files are released for 1998 hospital discharge data (see page 6 for data elements and file descriptions).

Data Processing and Quality:

Data submission: The Health Data Plan provides data element definitions to ensure all hospitals will report similar data. The Office of Health Care Statistics receives discharge data quarterly from ambulatory surgical facilities in various formats and media. The data are converted into a standardized format.

System Edits: The data are validated through a process of automated editing and report verification. Each record is subjected to a series of edits that check for accuracy, consistency, completeness, and conformity with the definitions specified in the Data Submittal Manual. Records failing the edit check are returned to the data supplier for correction or comment.

Facility Reviews: Each facility is provided with a 35 day review periods to validate the committee's data against their facility records. Any inconsistencies discovered by the facilities are reevaluated or corrected.

Missing Values: When dealing with unknown values, it is important to distinguish between systematic omission by facility (e.g., for facilities that were granted reporting exemption for particular data elements or which had coding problems that deemed the entire data from the hospital unusable), and non-systematic omission (e.g., coding problems, invalid codes, etc.). While systematic omission creates potential bias, non-systematic omission is assumed to occur randomly. The user is advised to examine missing values by facility for each data element to be used.

Patient Confidentiality:

The Committee has taken considerable efforts to ensure that no individual patient could be identified from the PDF. Patient's age, diagnosis codes, physician's specialty, and payers are grouped. Several data elements are encrypted under specific conditions: (1) Utah zip codes with less than 30 discharges in a calendar year and non-Utah zip codes are coded at the state level.

Agreement to Protect Patient Confidentiality:

The data collected by the Health Data Committee may be used only for the purpose of health statistical reporting and analysis or specified in the user's written request for the data; any effort to determine the identity of any reported cases is prohibited. No one will attempt to link this data set with individually identifiable records from any other data sets.

Notes on the 1998 Ambulatory Surgery Data:

This is the third year of statewide reporting of ambulatory surgery data in the State of Utah. Data suppliers' information systems vary considerably, as do formats. Facility to facility comparisons are not encouraged for the first three years of data. Comparing hospital-based to freestanding surgery center facilities will be especially challenging due to the differences in billing practice and general operations. Coding practices and formats will evolve over time as the data suppliers adapt to this new statewide reporting requirement.

The data are collected from two types of facilities: hospital-based ambulatory surgery centers and freestanding ambulatory surgery centers. These facilities varied in their reporting of procedure codes in 1998. Most hospital-based surgery centers reporting ICD9 procedures codes while the freestanding ambulatory surgery centers reported CPT4 procedure codes. There is no effective "crosswalk" tool to translate or compare these two procedure coding methods. Therefore, the user will have to be careful in how these data are used. Administrative Rule R428-11 was revised to require reporting of

both ICD9 and CPT4 procedure codes starting with the surgeries performed in 1998. Facilities were asked to resubmit the data in order to have both the ICD9 and CPT codes on the records but not all facilities were able to do so. The data includes a code to indicate whether the data contains only ICD9, only CPT4 or both.

Data Format:

Standard format for the public data file is zipped in ASCII code, on a set of 3 ½ diskettes. The information is also available on CD-ROM. Requests for other formats will be considered.

Citation:

Any statistical reporting or analysis based on the data shall cite the source as the following:

Utah Ambulatory Surgical Data File (1998). Utah Health Data Committee/Office of Health Care Statistics, Utah Department of Health. Salt Lake City, Utah. 1998.

Redistribution:

User **shall not redistribute** the Utah Ambulatory Surgical Data File in its original format. User **shall not redistribute** any data products derived from the file without written permission from the Office of Health Care Statistics, Utah Department of Health.

FILE LAYOUT

DESCRIPTION OF DATA ELEMENTS

Provider Identifier:

Hospital from which patient was discharged.

101 = BEAVER VALLEY HOSPITAL
102 = MILFORD VALLEY MEMORIAL HOSPITAL
103 = BRIGHAM CITY COMMUNITY HOSPITAL
104 = BEAR RIVER VALLEY HOSPITAL
105 = LOGAN REGIONAL HOSPITAL
106 = CASTLEVIEW HOSPITAL
107 = LAKEVIEW HOSPITAL
108 = DAVIS HOSPITAL & MEDICAL CENTER
109 = UINTAH BASIN MEDICAL CENTER
110 = GARFIELD MEMORIAL HOSPITAL
111 = ALLEN MEMORIAL HOSPITAL
112 = VALLEY VIEW MEDICAL CENTER
113 = CENTRAL VALLEY MEDICAL CENTER
114 = KANE COUNTY HOSPITAL
115 = FILLMORE COMMUNITY MEDICAL CENTER
116 = DELTA COMMUNITY MEDICAL CENTER
117 = JORDAN VALLEY HOSPITAL
118 = ALTA VIEW HOSPITAL
119 = COTTONWOOD HOSPITAL
120 = SALT LAKE REGIONAL MEDICAL CENTER
121 = LDS HOSPITAL
122 = PRIMARY CHILDREN S MEDICAL CENTER
124 = HCA ST. MARK S HOSPITAL
125 = UNIVERSITY OF UTAH HOSPITAL
126 = PIONEER VALLEY HOSPITAL
128 = SAN JUAN HOSPITAL
129 = GUNNISON VALLEY HOSPITAL
130 = SANPETE VALLEY HOSPITAL
132 = SEVIER VALLEY HOSPITAL
133 = TOOELE VALLEY REGIONAL MEDICAL CENTER
134 = ASHLEY VALLEY MEDICAL CENTER
135 = OREM COMMUNITY HOSPITAL
136 = AMERICAN FORK HOSPITAL
137 = MOUNTAIN VIEW HOSPITAL
138 = UTAH VALLEY MEDICAL CENTER
139 = WASATCH COUNTY HOSPITAL
140 = DIXIE MEDICAL CENTER
141 = MCKAY DEE HOSPITAL
142 = OGDEN REGIONAL MEDICAL CENTER
144 = TIMPANOGOS REGIONAL HOSPITAL
201 = BENCHMARK REGIONAL HOSPITAL

203 = CPC OLYMPUS VIEW HOSPITAL
204 = COPPERHILLS YOUTH CENTER
206 = UNIVERSITY NEUROPSYCHIATRIC INSTITUTE
207 = CHARTER CANYON BEHAVIORAL HLTH SYSTEM
209 = UTAH STATE HOSPITAL
301 = SOUTH DAVIS COMMUNITY HOSPITAL
302 = HIGHLAND RIDGE HOSPITAL
304 = BONNIVILLE HEALTH & REHABILITATION
305 = SHRINERS HOSPITAL
306 = HEALTHSOUTH REHABILITATION HOSPITAL OF UTAH
307 = THE ORTHOPEDIC SPECIALTY HOSPITAL
401 = CENTRAL UTAH SURGICAL CENTER
402 = INSTITUTE OF FACIAL SURGERY
403 = INTERMOUNTAIN SURGICAL CENTER
404 = MCKAY-DEE SURGICAL CENTER
405 = PROVO SURGICAL CENTER
406 = SALT LAKE ENDOSCOPY CENTER
407 = SALT LAKE SURGICAL CENTER (HEALTHSOUTH)
408 = ST. GEORGE SURGICAL CENTER
409 = ST. MARK'S OP SURGICAL CENTER
410 = THE SURGICARE CENTER OF UTAH
411 = WASATCH ENDOSCOPY CENTER
412 = WASATCH SURGERY CENTER
413 = WESTERN MEDICAL, INC.
414 = MOUNT OGDEN SURGICAL CENTER
415 = DAVIS SURGICAL CENTER
416 = MORAN EYE CENTER
417 = SOUTH TOWNE SURGICAL CENTER
801 = VETERANS HOSPITAL
803 = USAF HOSPITAL HILL/SGA

Patient's Age (as of last birthday) at the Date of Discharge:

0 = 1-28 days
1 = 29-365 days
2 = 1 - 4
3 = 5 - 9
4 = 10-14
5 = 15-17
6 = 18 - 19
7 = 20 - 24
8 = 25 - 29
9 = 30 - 34
10 = 35 - 39
11 = 40 - 44
12 = 45 - 49
13 = 50 - 54

14 = 55 - 59
15 = 60 - 64
16 = 65 - 69
17 = 70 - 74
18 = 75 - 79
19 = 80 - 84
20 = 85 - 89
21 = 90 +
66 = Encrypted (confidential data)
99 = Unknown
. = Not reported

Patient's Gender:

M = Male
F = Female
U = Unknown
E = Encrypted (confidential data)
Blank = Not reported

Type of Admission:

1 = Emergency
2 = Urgent
3 = Elective
4 = Newborn
9 = Unknown
Blank = Not reported

Patient's Status:

01 = Discharge to home or self care, routine discharge
02 = Discharge/transferred to another short-term general hospital
03 = Discharge/transferred to skilled nursing facility
04 = Discharge/transferred to an intermediate care facility
05 = Discharged/transferred to another type of institution
06 = Discharge/transferred to home under care of
 organized home health service organization
07 = Left against medical advice
08 = Discharged/transferred to home under care of a home IV provider
20 = Expired
40 = Expired at home
41 = Expired in a medial facility; i.e. hospital, skilled nursing facility,
 intermediate care facility, or free standing hospice
42 = Expired - place unknown
09 = Unknown
Blank = Not reported

Patient's Residential Zip Code:

84000-84799 = Zip codes in Utah
-6666 = Encrypted (confidential data)
-8888 = Unknown
-9999 = Outside U.S.
Blank = Not reported

If less than 30 discharges occurred for a Utah zip code area, this zip code was mapped into the county code:

Beave = Beaver
BoxEl = Box Elder
Cache = Cache
Carbo = Carbon
Dagge = Daggett
Davis = Davis
Duche = Duchesne
Emery = Emery
Garfi = Garfield
Iron = Iron
Milla = Millard
Morga = Morgan
MulCo = Multi county
Piute = Piute
Rich = Rich
SaltL = Salt Lake
SanJu = San Juan
Sanpe = Sanpete
Sevie = Sevier
Summi = Summit
Tooel = Tooele
Uinta = Uintah
Washi = Washington
Wayne = Wayne
Weber = Weber

If less than 30 discharges occurred for a non Utah zip code area, this zip code was mapped into the state code:

AL = ALABAMA
AK = ALASKA
AZ = ARIZONA
AR = ARKANSAS
CA = CALIFORNIA
CO = COLORADO
CT = CONNECTICUT
DE = DELAWARE
DC = DISTRICT OF COLUMBIA
FL = FLORIDA
GA = GEORGIA
HI = HAWAII
ID = IDAHO

| | |
|----|------------------|
| IL | = ILLINOIS |
| IN | = INDIANA |
| IA | = IOWA |
| KS | = KANSAS |
| KY | = KENTUCKY |
| LA | = LOUISIANA |
| ME | = MAINE |
| MD | = MARYLAND |
| MA | = MASSACHUSETTS |
| MI | = MICHIGAN |
| MN | = MINNESOTA |
| MS | = MISSISSIPPI |
| MO | = MISSOURI |
| MT | = MONTANA |
| NB | = NEBRASKA |
| NV | = NEVADA |
| NH | = NEW HAMPSHIRE |
| NJ | = NEW JERSEY |
| NM | = NEW MEXICO |
| NY | = NEW YORK |
| NC | = NORTH CAROLINA |
| ND | = NORTH DAKOTA |
| OH | = OHIO |
| OK | = OKLAHOMA |
| OR | = OREGON |
| PA | = PENNSYLVANIA |
| RI | = RHODE ISLAND |
| SC | = SOUTH CAROLINA |
| SD | = SOUTH DAKOTA |
| TN | = TENNESSEE |
| TX | = TEXAS |
| UT | = UTAH |
| VT | = VERMONT |
| VA | = VIRGINIA |
| WA | = WASHINGTON |
| WV | = WEST VIRGINIA |
| WI | = WISCONSIN |
| WY | = WYOMING |
| PR | = PUERTO RICO |
| GQ | = GUAM |

Patient's Residential County:

1= Box Elder
2= Cache
3= Rich
4= Morgan
5= Weber
6= Davis
7= Salt Lake
8= Summit
9= Tooele
10= Utah
11= Wasatch
12= Daggett
13= Duchesne
14= Uintah
15= Juab
16= Millard
17= Piute
18= Sanpete
19= Sevier
20= Wayne
21= Carbon
22= Emery
23= Grand
24= San Juan
25= Beaver
26= Garfield
27= Iron
28= Kane
29= Washington
30= Multi-county Zip Codes
77= Outside Utah
88= Unknown
99= Outside U.S.

Suggested Division of Local Areas:

| Definition | County Code (see above) |
|-----------------------|-------------------------|
| 1. Urban vs. Rural | |
| Urban Areas | 5,6,7,10 |
| Rural Areas | 1-4, 8-9, 11-29 |
| Excluding | 30,77,88,99 |
| 2. Wasatch Front Area | |
| Yes | 5,6,7,10 |

| | |
|---------------------------|-----------------|
| No | 1-4, 8-9, 11-29 |
| Excluding | 30,77,88,99 |
| 3. Local Health Districts | |
| Bear River | 1-3 |
| Weber-Morgan | 4-5 |
| Davis County | 6 |
| Salt Lake County | 7 |
| Summit County | 8 |
| Tooele County | 9 |
| Utah County | 10 |
| Wasatch County | 11 |
| Uintah Basin | 12-14 |
| Central Utah | 15-20 |
| Southeastern Utah | 21-24 |
| Southwest Utah | 25-29 |

Patient's Cross-County Migrant Status:

Y = Yes
N = No
U = Unknown

Patient's Marital Status:

S = Single
M = Married
X = Legally Separated
D = Divorced
W = Widowed
U = Unknown
Blank = Not reported

Principal Diagnosis Code:

ICD-9-CM code. Refer to International Classification of Diseases (9th Revision): Clinical Modification for description.

Blank = Not reported

Secondary Diagnosis Code 1:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 2:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 3:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 4:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 5:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 6:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 7:

Definition and category are the same as Principal Diagnosis Code

Secondary Diagnosis Code 8:

Definition and category are the same as Principal Diagnosis Code

Procedure Code Type:

0 = ICD9-CM code
1 = CPT-4 code
2 = Both ICD9-CM and CPT4 codes

Principal Procedure Code:

ICD-9-CM code. Refer to International Classification of Diseases (9th Revision): Clinical Modification for description.
CPT code. Refer to Physicians Procedure Current Terminology for description.
Blank = Not reported

Secondary Procedure Code 1:

Definition and category are the same as Principal Procedure Code

Secondary Procedure Code 2:

Definition and category are the same as Principal Procedure Code

Secondary Procedure Code 3:

Definition and category are the same as Principal Procedure Code

Secondary Procedure Code 4:

Definition and category are the same as Principal Procedure Code

Secondary Procedure Code 5:

Definition and category are the same as Principal Procedure Code

Total Charge*:

Total dollars and cents amount charged for the discharge (with 2 decimal digits).
= Not Reported

Primary Payer Category:

- 01 = Medicare
 - 02 = Medicaid
 - 03 = Other government
 - 04 = Blue cross/blue shield
 - 05 = Other commercial
 - 06 = Managed care
 - 07 = Self pay
 - 08 = Industrial and worker's compensation
 - 09 = Unclassified
 - 10 = Unknown
 - Blank = Not reported
-

Secondary Payer Category:

Descriptions are the same as first payer category.

Third Payer Category:

Descriptions are the same as first payer category.

Patient's Relationship to the First Insured Person:

- 1 = Patient is the named insured
- 2 = Spouse
- 3 = Natural Child/insured financial responsibility
- 4 = Natural Child/insured does not have financial responsibility
- 5 = Step Child
- 6 = Foster Child
- 7 = Ward of the Court (Patient is ward of the insured as a result of a court order.)
- 8 = Employee (The patient is employed by the named insured.)
- 9 = Unknown
- 10 = Handicapped Dependent (Dependent child whose coverage extends beyond normal termination age limits as a result of laws or agreements extending coverage.)
- 11 = Organ Donor (Code is used in cases where bill is submitted for care given to organ donor where such care is paid by the receiving patient's insurance coverage.)
- 12 = Cadaver Donor (Code is used where bill is submitted for procedures performed on cadaver donor where such procedures are paid by the receiving patient's insurance coverage.)
- 13 = Grandchild
- 14 = Niece or Nephew
- 15 = Injured Plaintiff (Patient is claiming insurance as a result of injury covered by insured.)
- 16 = Sponsored Dependent (Individual not normally covered by insurance coverage but coverage has been specially arranged to include relationships such as grandparent or former spouse that would require further investigation by the payer.)

17 = Minor Dependent of a Minor Dependent (Code is used where patient is a minor and a dependent of another minor who in turn is a dependent, although not a child, of the insured.)

18 = Parent

19 = Grandparent

99 = Unknown

Procedure Category (Principal through 6th):

0 = No match for Procedure Category

1 = Musculoskeletal

2 = Respiratory

3 = Cardiovascular

4 = Lymphatic/Hematic

5 = Diaphragm

6 = Digestive System

7 = Urinary

8 = Male Genital

9 = Laparoscopy

10= Female Genital

11= Endocrine/Nervous

12= Eye

13= Ear

14= Nose, Mouth, Pharynx

15= Mastectomy

Discharge Quarter:

1 = First Quarter (Jan.1 to March 31)

2 = Second Quarter (April 1 to June 30)

3 = Third Quarter (July 1 to Sept. 30)

4 = Fourth Quarter (Oct. 1 to Dec. 31)

Record ID Number:
